SEE-GRID-2

SEE-GRID Infrastructure and Grid Operations

www.see-grid.eu

September 28, 2006



Antun Balaz

SEE-GRID-2 WP3 Leader Institute of Physics, Belgrade antun@phy.bg.ac.yu

WP3: Infrastructure-related goals



- Proliferation of Grid Resource Centers
 - Expand regionally to include new countries/areas and widen the SEE e-community
 - Expand nationally to include new sites/institutes and strengthen collaboration in each country – create a web of resource centers also at national level, not only at regional (support to SEE NGIs)
- Application-driven deployment approach
 - serve the needs of diverse and multi-disciplinary communities
 - extend the user-base USE the grid, USE the network, USE the e-Infrastructure
 - get closer to the public-at-large

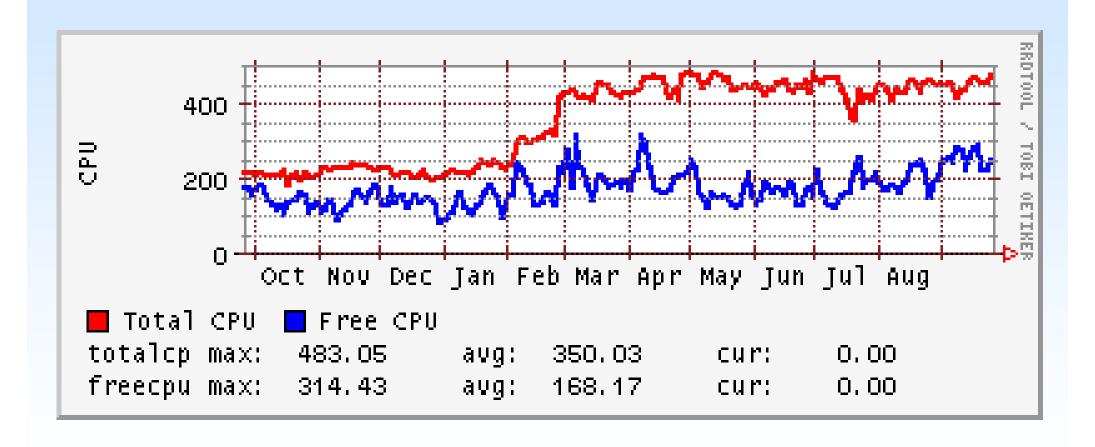
Main WP3 activities



- Upgrade the capacity of the regional pilot infrastructure
 - increase number of sites and resources in the pilot regional infrastructure
 - increase the number of sites migrating into EGEE
- Guarantee stability and interoperability of the infrastructure
 - operational procedures, timely updates to M/W and OS, and advance notices of updates and downtimes
 - available network resources and bandwidth-on-demand requirements
 - monitor infrastructure performance and assess its usage
- Support the accreditation of national Grid CAs.
 - Per country: One CA / Multiple RAs
- Deploy portal technology for accessing the grid and supporting application development and deployment
 - re-engineering P-GRADE Portal to the requirements of the new middleware
- Draw upon deployment experience/results of other grid projects (EGEE/EGEE-II, EUMEDGRID, BalticGrid, EELA, etc)
 - MoUs and cooperation with partner project
 - Share key deliverables and results

SEE-GRID/SEE-GRID-2 Infrastructure in Numbers

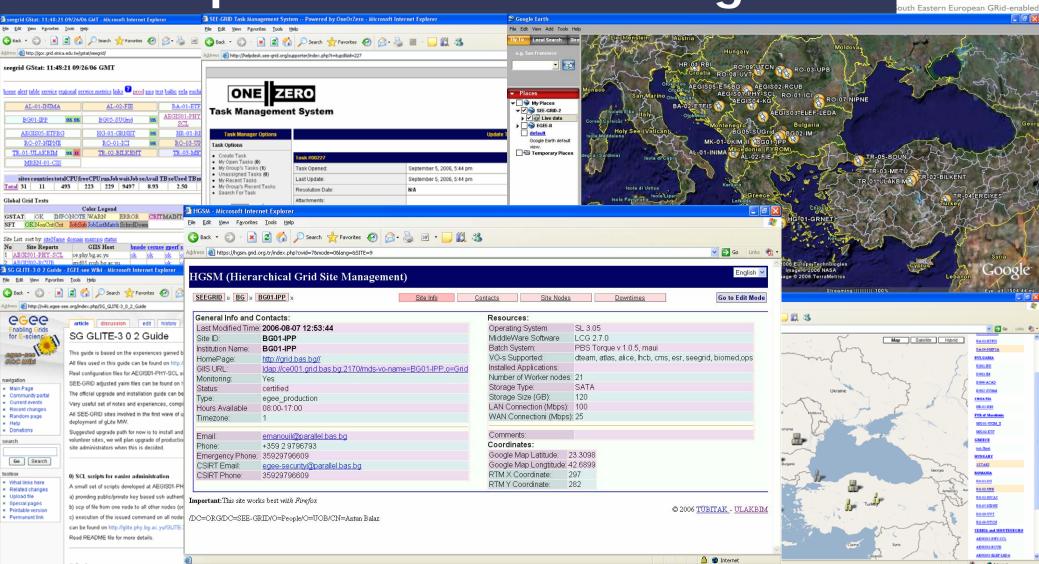




SEE-GRID



Operational/Monitoring Tools



Key results: infrastructure, deployment, development



- Pilot infrastructure deployed: ~520 CPUs, 8.5 TB
 - 31 sites: 3 in BG, 6 in RO, 1 in GR, 1 in HU, 2 in AL, 3 in BA, 5 in RS, 1 in HR, 2 in FYROM, 6 in TR, 1 in ME
- Set of core services deployed in the region, as well as the SEEGRID VO; in addition, VO deployment development:
 - OPS and APPLICATION roles approach; prioritization
 - VO migration for new applications, including data
 - National VOs support
- M/W deployment: mostly EGEE pace, but also
 - M/W assessment and testing done within the project for key services deployed – application driven
 - Development (e.g. voms-proxies renewal on lcg-RB)

Key results: operations, support, monitoring, applications



- Operational, user support, monitoring and other runtime management aspects carried out in close correlation with EGEE procedures and the EGEE-SEE ROC
 - Integration with SEE-RID GOCDB: HGSM
 - Helpdesk interoperable with EGEE-SEE
- 2 pilot applications and P-GRADE portal stable and deployed over the infrastructure
- New applications identified, major development in progress
- Important wider development contributions, e.g. LFC Java API

Key results: CA deployment ad support

- SEE-GRID catch-all CA supporting all regional users
 - Network of RAs in all participating institutions
- National CAs establishment and support throughout the SEE-GRID/SEE-GRID-2
 - RA/CA training
 - Support during the establishment of new CAs and network of national RAs
 - Croatian and Turkey CA already accredited; Serbian CA to be accredited soon; others in progress
 - Operational support to established CAs and their RAs
 - Model for other regions

Key results: migration to EGEE



SEE-GRID partner sites from Serbia, Croatia, and Turkey have been accepted in the production-level EGEE infrastructure and have joined the EGEE-II proposal after having proven their conformance to the joining criteria.

